

CLAIMS

1. A synthetic resin emulsion for use as a main component of a sealer composition for recoating a coating and comprising synthetic resin particles dispersed in water, said synthetic resin emulsion which is produced by copolymerizing

(a) 20 to 99.5% by weight of an alkyl (meth)acrylate wherein the content of an alkyl (meth)acrylate, in which the alkyl group has 4 or less carbon atoms, is not less than 50% by weight based on the whole alkyl (meth)acrylate;

(b) 0.5 to 10% by weight of an ethylenically unsaturated carboxylic acid; and

(c) 0 to 79.5% by weight of a monomer copolymerizable with said monomers (a) and (b), in the presence of an alkyldiphenyl ether disulfonate as an emulsifier,

said synthetic resin emulsion having a glass transition temperature (T_g) of 15 to 50°C, the average particle diameter of the synthetic resin particles dispersed in water being 0.01 to 0.2 μm.

2. The synthetic resin emulsion according to claim 1, wherein the minimum film-forming temperature (MFT) is 0°C or below.

3. The synthetic resin emulsion according to claim 1 or 2, wherein the alkyl (meth)acrylate, in which the alkyl group has 4 or less carbon atoms, is selected from the group consisting of methyl methacrylate, butyl acrylate, butyl methacrylate, ethyl acrylate, and ethyl methacrylate.

4. The synthetic resin emulsion according to any one of claims 1 to 3, wherein the copolymerizable monomer is a monomer having a functional group selected from the group consisting of glycidyl, ureido, acetoacetoxy, acetoacetyl, amide, allyl, silyl, nitrile, and hydroxyl groups.

material, a silicone resin coating material, an acryl/urethane resin coating material, or an urethane resin coating material.

14. The method according to any one of claims 11 to 13, wherein the sealer composition further comprises an aqueous dispersion of a chlorinated polyolefin.

15. Use of the synthetic resin emulsion according to any one of claims 1 to 6, for the production of a sealer composition for recoating of a coating.